

APPLN. FILING DATE: MARCH 21, 2001  
TITLE: MATRIX MULTIPLICATION IN A VECTOR  
PROCESSING SYSTEM  
INVENTOR(S): ALI SAZEGARI  
APPLICATION SERIAL NO.: UNASSIGNED  
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COMPUTER PROCESSING SYSTEM

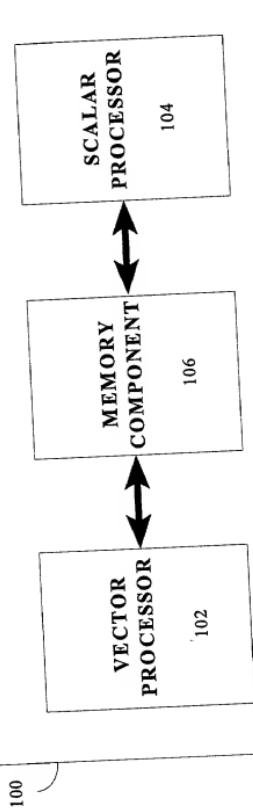


FIGURE 1

APPLN. FILING DATE: MARCH 21, 2001  
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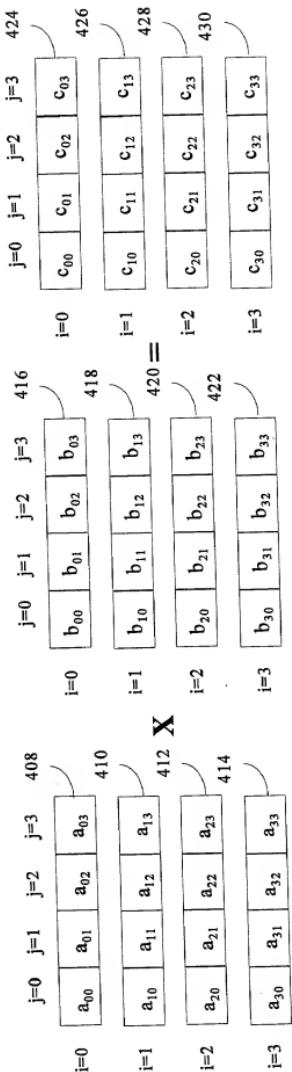
$$\begin{array}{c}
 \begin{matrix} j=0 & j=1 & 208 \\ i=0 & \boxed{a_{00}} & \boxed{a_{01}} \end{matrix} \\
 \times
 \begin{matrix} j=0 & j=1 & 212 \\ i=0 & \boxed{b_{00}} & \boxed{b_{01}} \end{matrix} \\
 = \\
 \begin{matrix} i=1 & \boxed{a_{10}} & \boxed{a_{11}} \end{matrix} \\
 \begin{matrix} A & 210 & B & 214 \end{matrix} \\
 C & 218
 \end{array}$$

FIGURE 2

$$\begin{array}{c}
 \begin{matrix} j=0 & j=1 & 208 \\ i=0 & \boxed{a_{00}} & \boxed{a_{01}} \end{matrix} \\
 \times
 \begin{matrix} j=0 & j=1 & 312 \\ i=0 & \boxed{b'_{00}} & \boxed{b'_{01}} \end{matrix} \\
 = \\
 \begin{matrix} i=1 & \boxed{a_{10}} & \boxed{a_{11}} \end{matrix} \\
 \begin{matrix} A & 210 & B^T & 314 \end{matrix} \\
 C & 218
 \end{array}$$

FIGURE 3

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D

F  
E

FIGURE 4

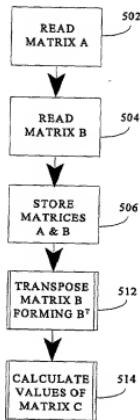


FIGURE 5

101230-82578-0323010

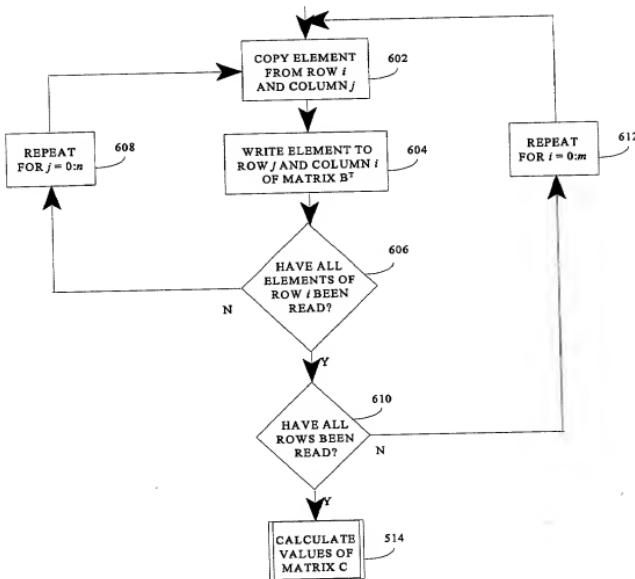


FIGURE 6

TOE00087574860

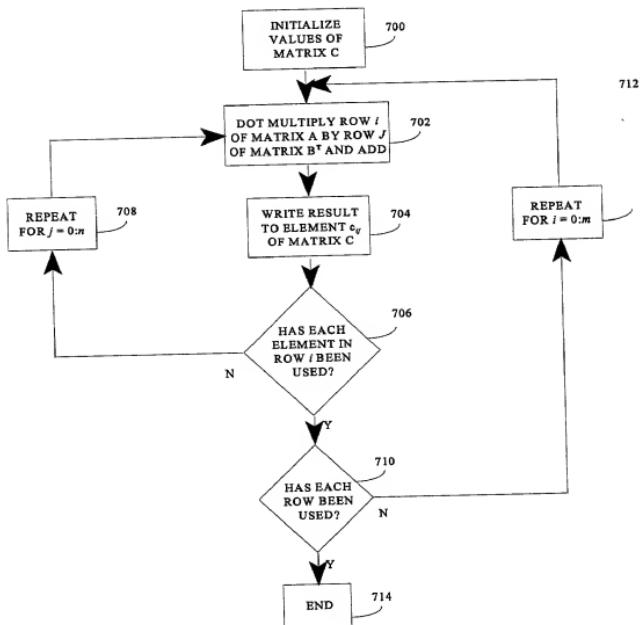


FIGURE 7

09812578-032101

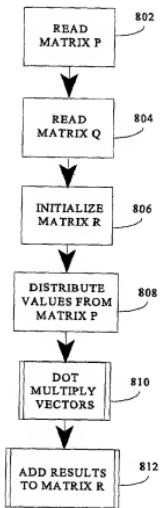


FIGURE 8A

107380-34521860

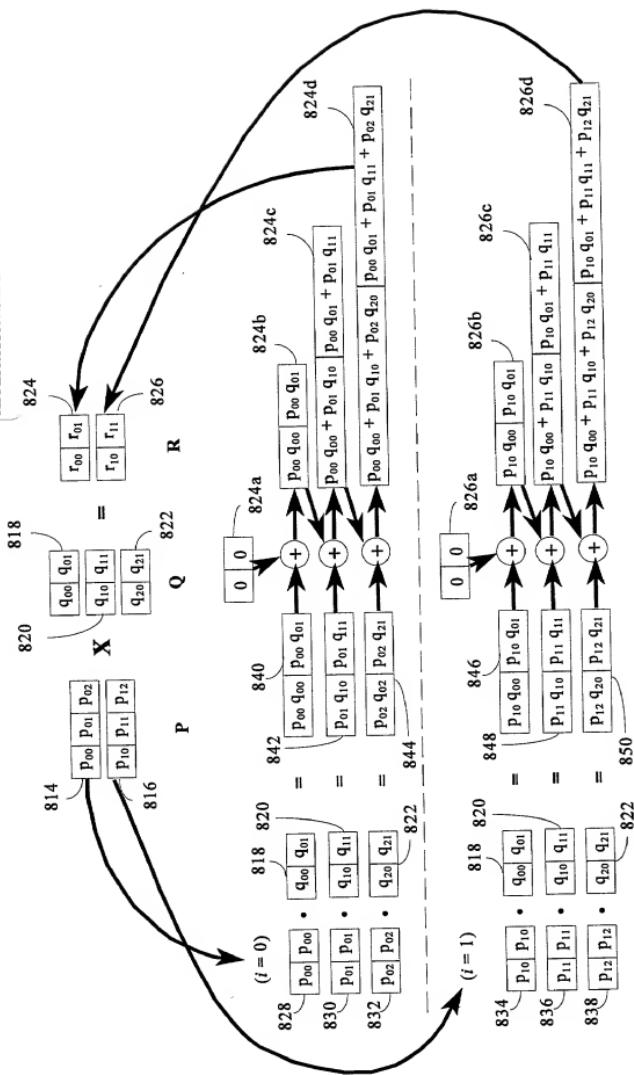


FIGURE 8B

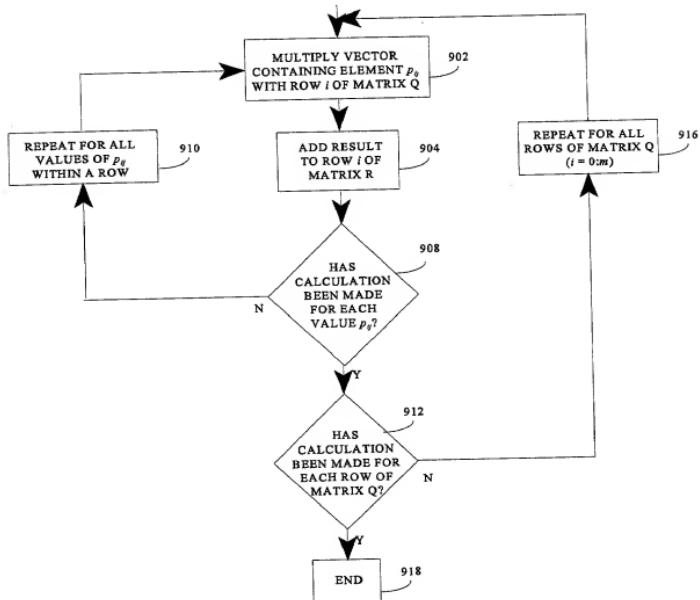


FIGURE 9

09812578-032101

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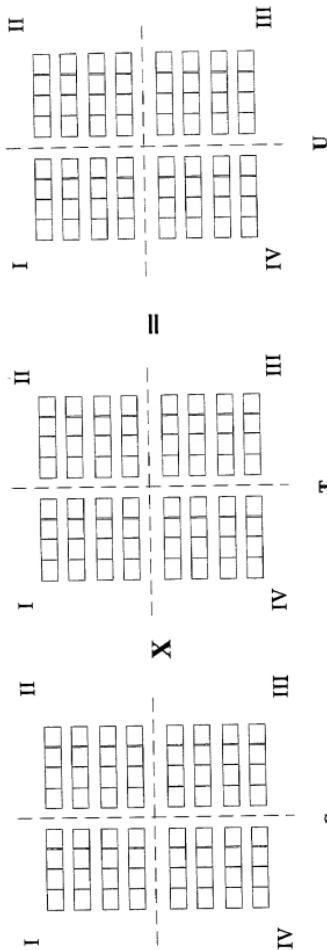


FIGURE 10

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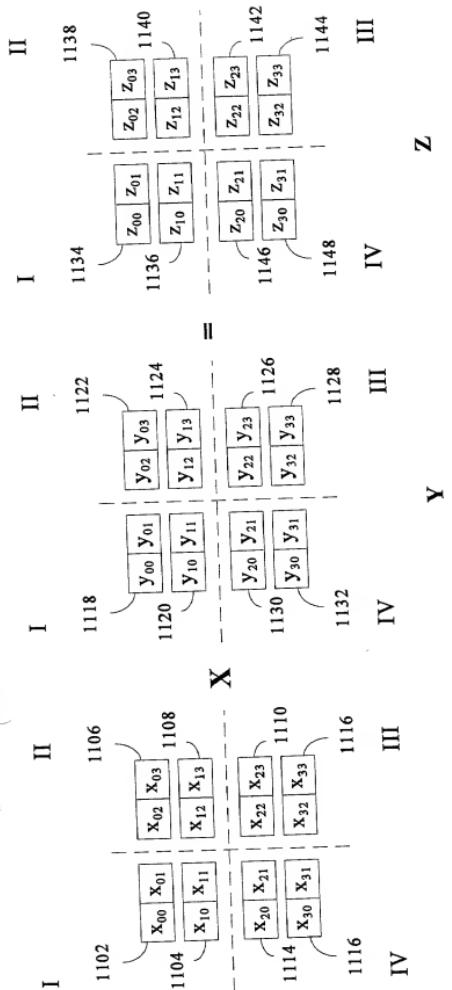


FIGURE 11

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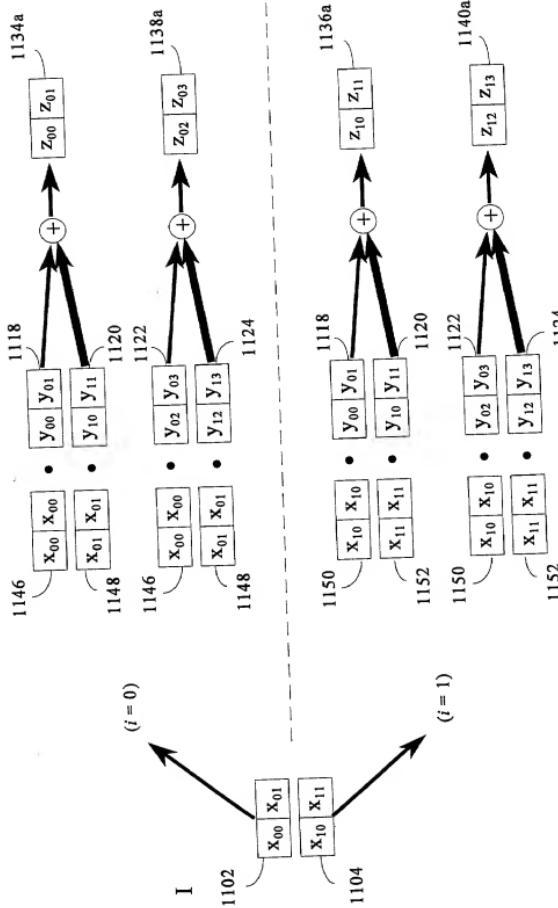


FIGURE 11A

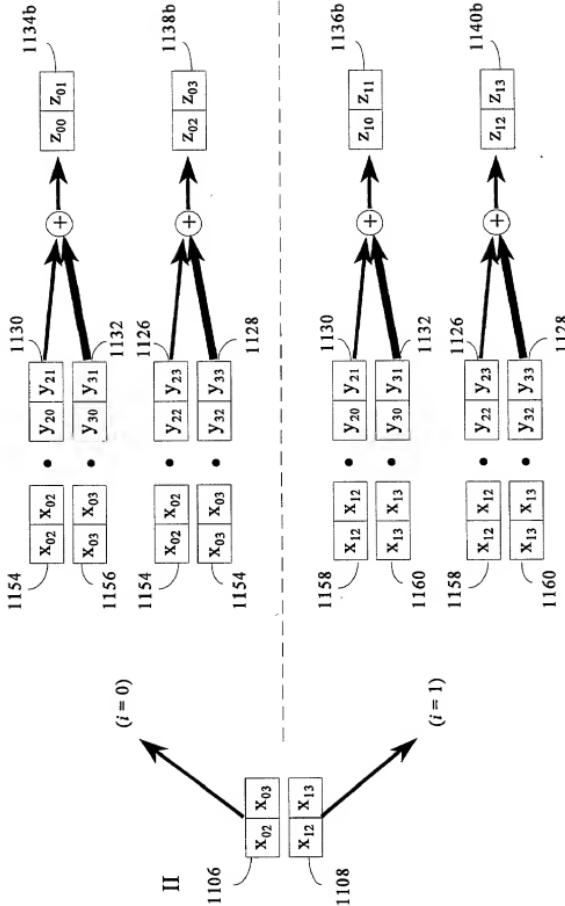


FIGURE 11B

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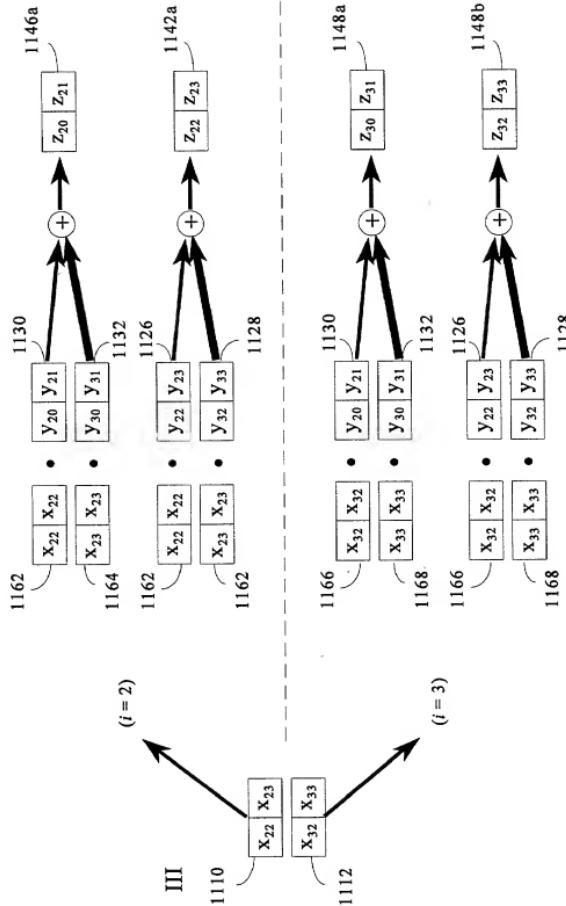


FIGURE 11C

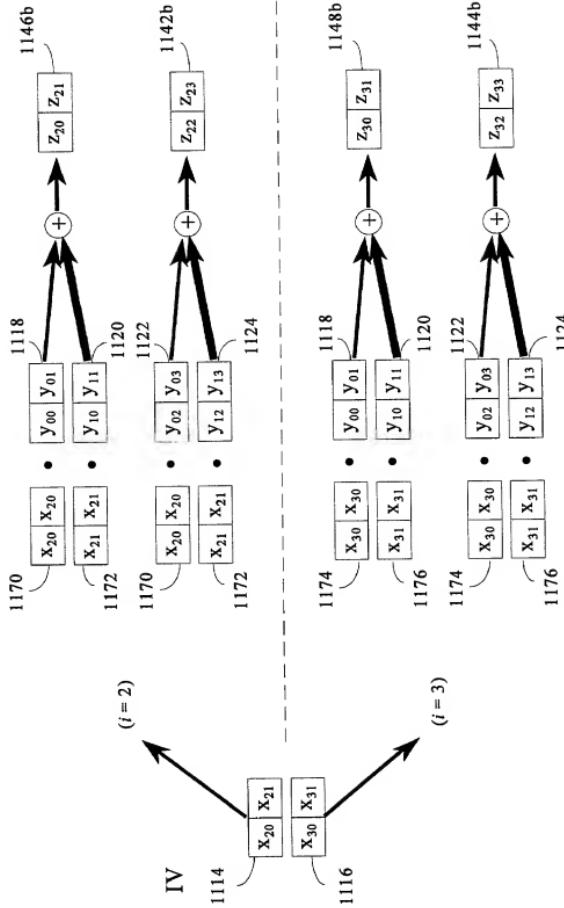


FIGURE 11D